Notice of Allowability	Application No.	Application No. Applicant(s)	
	10/685,940	RENTSCHLER ET AL.	
	Examiner	Art Unit	
	Hong C. Kim	2185	
	Hong C. Killi	2103	
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comm IGHTS. This application is	in this application. If not included nunication will be mailed in due course	
1. \boxtimes This communication is responsive to <u>5/5/06</u> .			
2. The allowed claim(s) is/are <u>5-19, renumbered to 1-15</u> .			
3. ☐ Acknowledgment is made of a claim for foreign priority use a) ☐ All b) ☐ Some* c) ☐ None of the:		or (f).	
1. Certified copies of the priority documents have			
2. Certified copies of the priority documents have	• •		
3. Copies of the certified copies of the priority do	cuments have been receive	ed in this national stage application fro	m the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.			
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			: OF
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.			
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached			
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date			
(b) including changes required by the attached Examiner' Paper No./Mail Date	s Amendment / Comment o	or in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the same of			of
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.			
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5 □ Notice of I	nformal Potent Application (PTO 152)	
Notice of References Cited (PTO-692) Notice of Draftperson's Patent Drawing Review (PTO-948)	<u> </u>	nformal Patent Application (PTO-152)	
	Paper No	Summary (PTO-413), ./Mail Date	
 Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date <u>5/5/06</u> 	08), 7. ☐ Examiner	s Amendment/Comment	
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛭 Examiner	s Statement of Reasons for Allowance	;
C. Diological material	9.		

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Detailed Action

1. Claims 5-19 are presented for examination. This office action is in response to the amendment filed on 5/5/06.

- 2. The information disclosure statement (IDS) submitted on 5/5/06 is being considered by the examiner
- 3. The terminal disclaimer filed on 5/5/06 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of US Patent No. 6633965 has been reviewed and is accepted. The terminal disclaimer has been recorded.

REASONS for ALLOWANCE

4. The following is an Examiner's statement of reasons for the indication of allowable subject matter: renumbered claims 1-15 are allowable over the prior art of record because an update of a search previously made does not detect the combined claimed elements as set forth in the claims 1-15. Claims are allowable over the prior art of record because none of the prior art of record teaches or fairly suggests a computer system comprises a CPU, a memory controller and memory devices, the memory controller comprises a plurality of data pads and strobe pads coupled to the memory devices, wherein data is read and written at each of the data pads in sync with a strobe that is received at or generated by a corresponding one of the strobe pads; for each

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data pad, receiver circuitry comprising P storage elements, wherein in a first mode, data bits stored by the P storage elements are multiplexed to generate a single data stream, and in a second mode, data bits stored in the P storage elements are multiplexed to generate at least two data streams; and for each strobe pad, receiver circuitry comprises a counter to count received strobe edges; wherein particular counts of strobe edges received at a particular strobe pad cause data to be received by particular ones of the P storage elements associated with data pads corresponding to the particular strobe pad as described in the specification and together with combination of other claimed element as set forth in the claims. Therefore, claims 1-15 are allowable over the prior art of records.

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- 5. Any comments considered necessary by applicant must be submitted no later than the payment of the Issue Fee and, to avoid processing delays, should preferably accompany the Issue Fee. Such submissions should be clearly labeled "Comments on Statement of Reasons For Allowance."
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hong Kim whose telephone number is (571) 272-4181. The examiner can normally be reached on M-F 9:00 to 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matt Kim can be reached on (571) 272-4182. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Any inquiry of a general nature or relating to the status of this application should

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be directed to the TC 2100 whose telephone number is (571) 272-2100.

7. Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

8. Any response to this action should be mailed to:

Commissioner of Patents

P.O. Box 1450

Alexandria, VA 22313-1450

1216

or faxed to TC-2100:

(703) 872-9306

Hand-delivered responses should be brought to the Customer Service

Window (Randolph Building, 401 Dulany Street, Alexandria, VA 22314).

H Kim

Primary Patent Examiner

June 12, 2006